



Nature-based, carbon negative fiber substitute for wood & fossil fuel-based raw materials



WHAT MAKES A GOOD FEEDSTOCK

- Low cost
- Consistent properties
- Reliable supply
- Available year round
- Available “everywhere locally”
- It is not food
- Used in multiple applications
- Drop-in solution
- Right bio- and thermochemical properties
- Minimize carbon footprint
- Qualifies for “green” incentives (e.g., RINs)





DEDICATED BIOENERGY CROPS

PROS

- Consistent pricing
- Consistent properties
- Not food
- Perennial
- Grow in poor soil
- Qualify for decarbonization incentives
- Ecosystems services

CONS

- Agriculturally produced
- Pesticides may be needed
- Monocropping
- Limited production locations, if need arable land or specific climate
- Higher production/processing costs for some

XANOGRASS™ V. OTHER BIOMASS



LAND-USE EFFICIENT

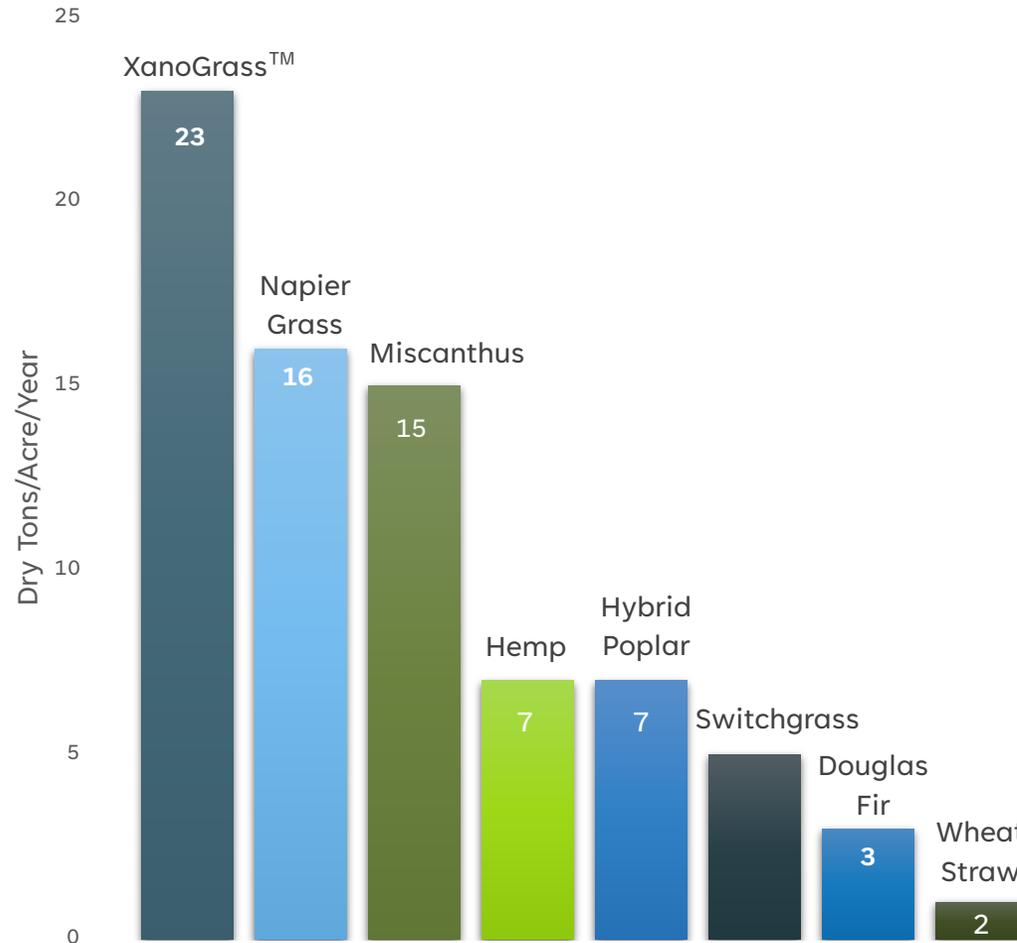
XanoGrass™ produces significantly more biomass per acre than other food and annual/perennial energy crops



GROW CLOSE TO FACILITY

XanoGrass™ grows close to manufacturing facilities reducing transportation costs and CO₂ emissions

Average Annual Yield per Acre in Tons*



CARBON NEGATIVE

XanoGrass™ is carbon negative in production and use, even when used for combustion



EPA-APPROVED BIOENERGY CROP

XanoGrass™ is an EPA-approved bioenergy crop that meets the Renewable Fuel Standards & qualifies for RINs



THANK YOU

Wendy Owens

wowens@hexas.com

www.hexas.com

